

A Listing of the Claims

1. (Previously Presented) A heating apparatus comprising:
a heating head for emanating heat thereabout and having a central, longitudinal axis extending therethrough;
a burner assembly for igniting fuel from a fuel source and generating hot combustion gases;
a plurality of elongate flue chambers extending along the head axis through which the hot combustion gases travel;
external and internal wall portions of the head that are of a predetermined material and cooperate to form the flue chambers; and
insulation material that is distinct from the material of the wall portions disposed against and along the head internal wall portions so that the insulation material maximizes heat transfer from the hot combustion gases radially outward to the external wall portions and minimizes heat transfer radially inward from the inner wall portions.
2. (Original) The heating apparatus of claim 1 wherein the external and internal wall portions are spaced to keep the flue chambers sized to provide for turbulent flow of the combustion gases traveling therethrough.
3. (Original) The heating apparatus of claim 1 wherein the head is sized along the axis thereof and the head outer wall portions are of a predetermined material selected to radiate substantially infrared heat energy.

4. (Original) The heating apparatus of claim 1 including an elongate support on which the head is mounted so that the central axis thereof is aligned with the support to provide the heating apparatus as a patio heater of a predetermined axial length with the head above ground level.
5. (Original) The heating apparatus of claim 4 wherein the head has a predetermined length equal or greater than approximately one quarter of the predetermined length of the patio heater.
6. (Original) The heating apparatus of claim 4 including a downwardly opening dome on top of the heating head to reflect stray heat energy downwardly about the head and elongate support therefor.
7. (Original) The heating apparatus of claim 1 wherein the external and internal wall portions engage each other to substantially isolate gas flow in each flue chamber from gas flow in other flue chambers.
8. (Original) The heating apparatus of claim 7 wherein the head includes an inner, generally cylindrical wall including the inner wall portions, and an outer wall including the outer wall portions and being configured to generally include peaks spaced from the inner wall portions and valleys engaged with the inner wall portions.
9. (Original) The heating apparatus of claim 8 wherein the peaks of the outer wall portions are curved or angled.

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10. (Original) The heating apparatus of claim 8 wherein the inner wall includes an inner surface with the insulation material thereon.

11-21. (Cancelled)